



1/20

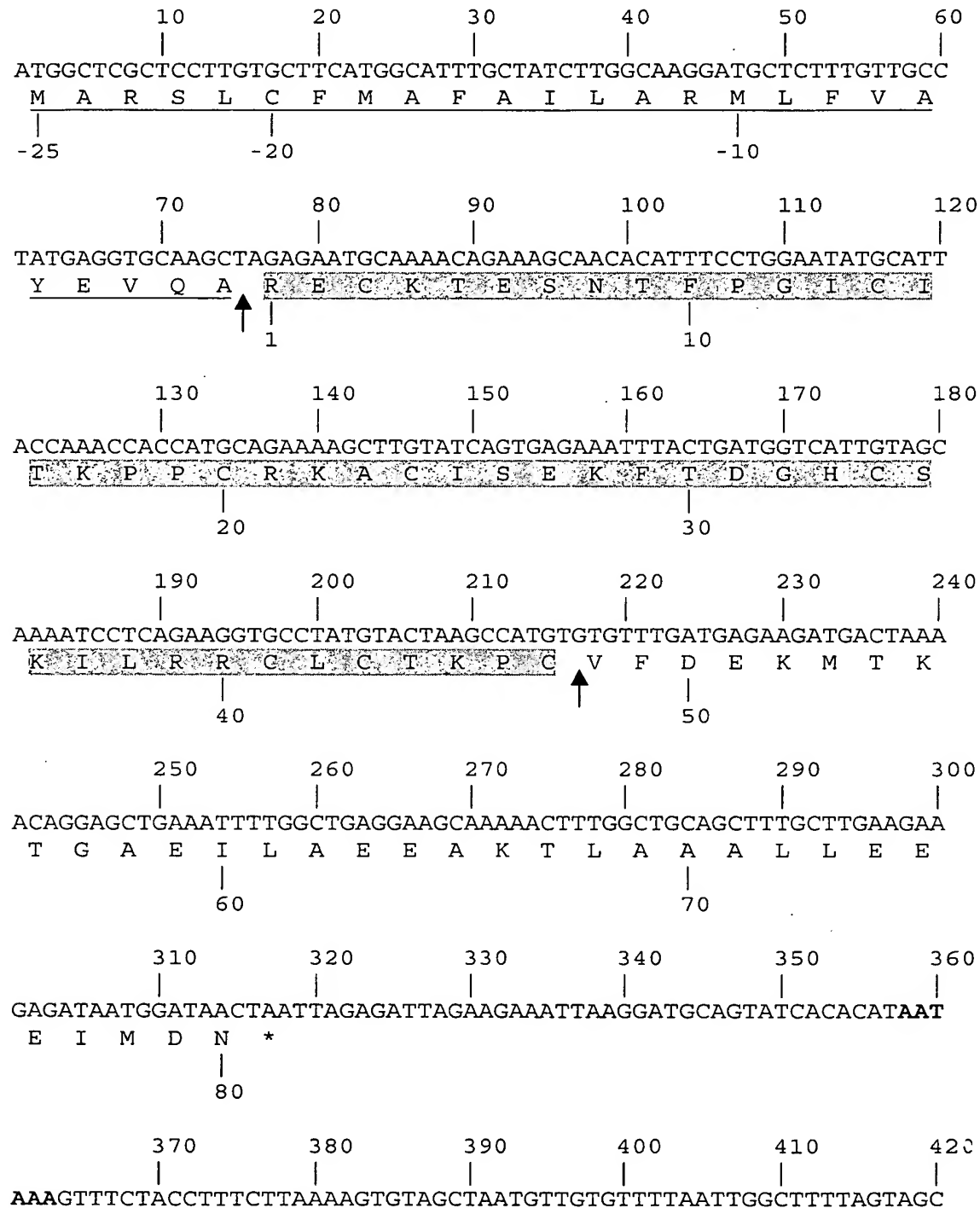


Figure 1



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```
      430      440      450      460      470      480
      |        |        |        |        |        |
CTTTTATTACACTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT

      490      500      510      520      530      540
      |        |        |        |        |        |
TTATTTGTGTACTTTTAATGAAAATGACCTTCTATGGTCTTTGGTTAAAAAAAAAAAAAA

541
|
A
```

Figure 1 continued

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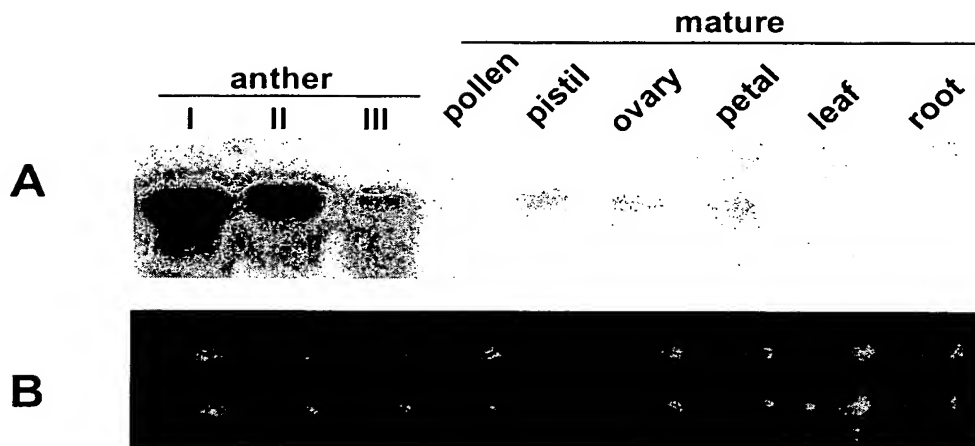


Figure 2

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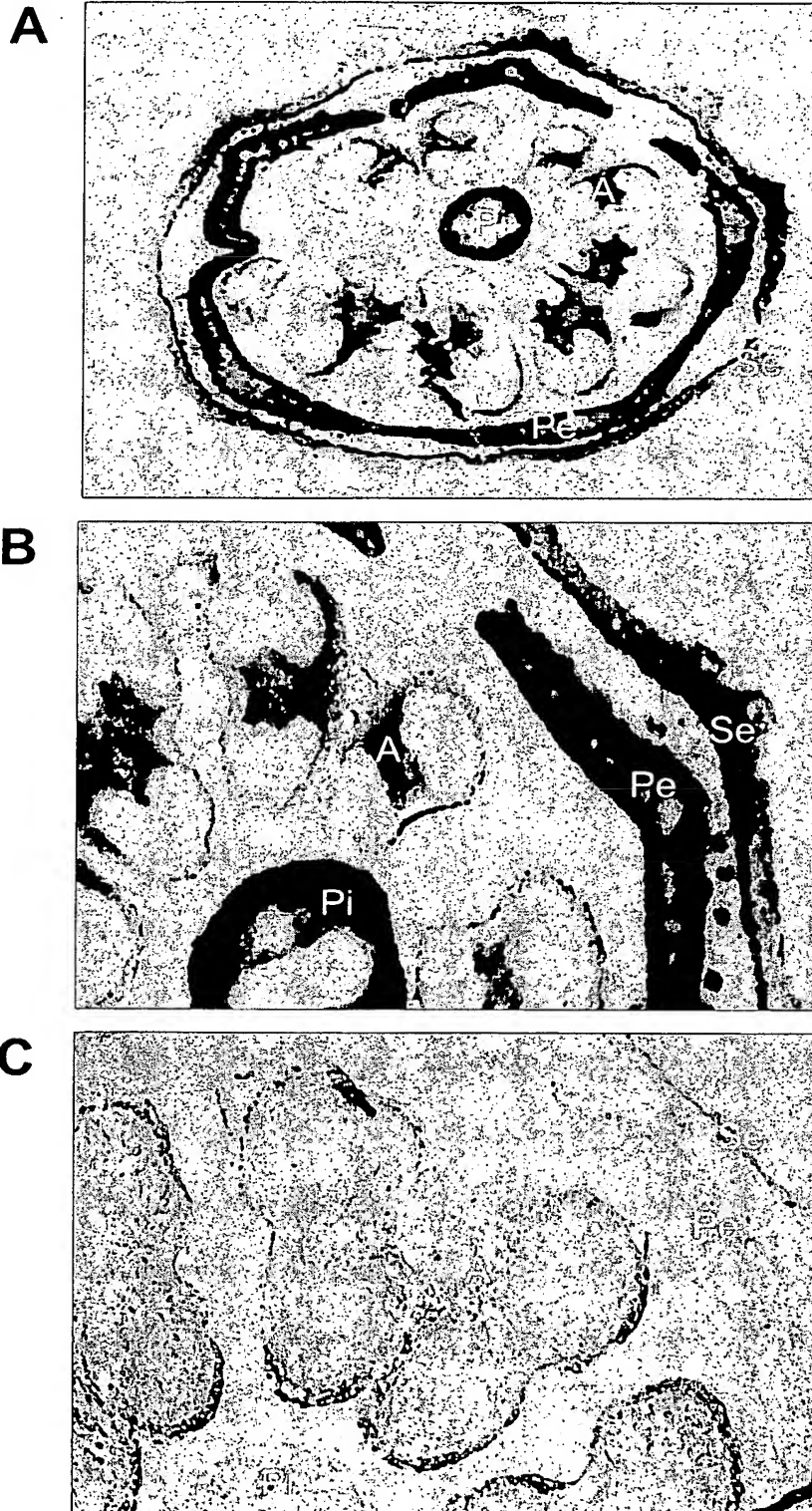
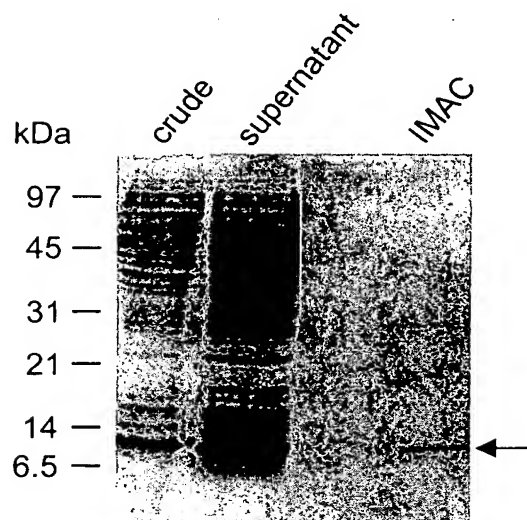


Figure 3

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A



B

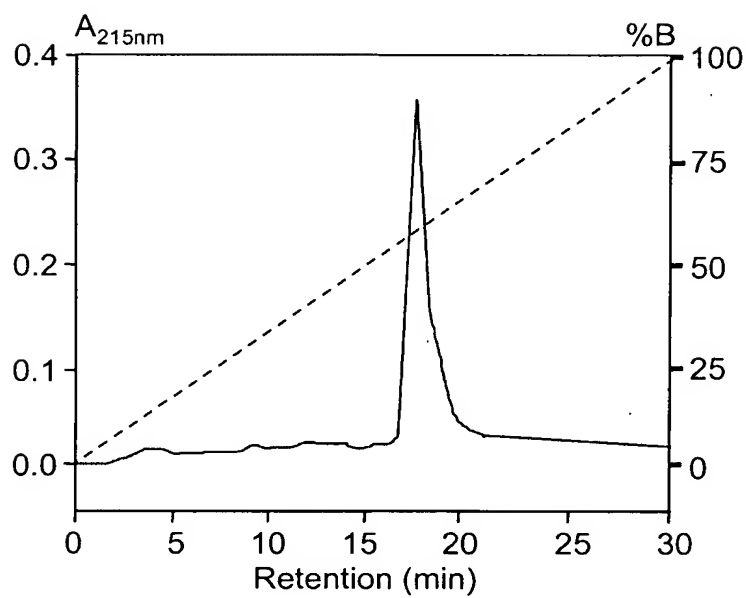
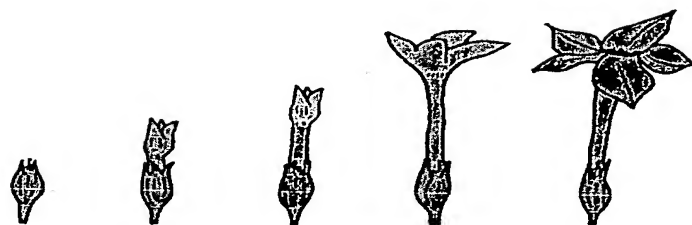


Figure 4

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A



immature

mature

B

bud
length (mm)

5-10

20-30

40-50

60-70

70-80

kDa

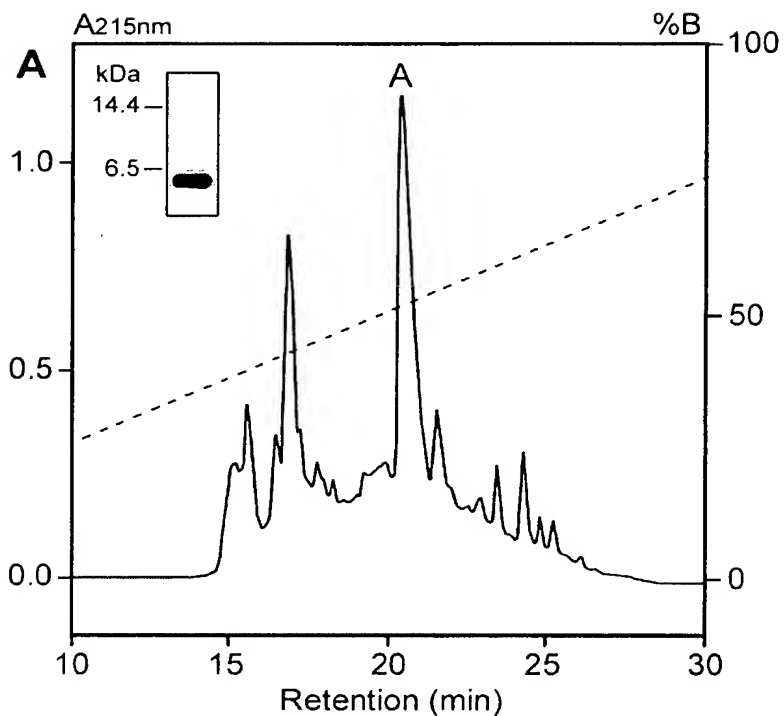
14.4

6.5



Figure 5.

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B	Peak A
Protein	NaPdf1
% Acetonitrile	30.7
N-terminal sequence	RExKTESN
Predicted mass (Da)	5296.0
Observed mass (Da)	5296.7

Figure 6

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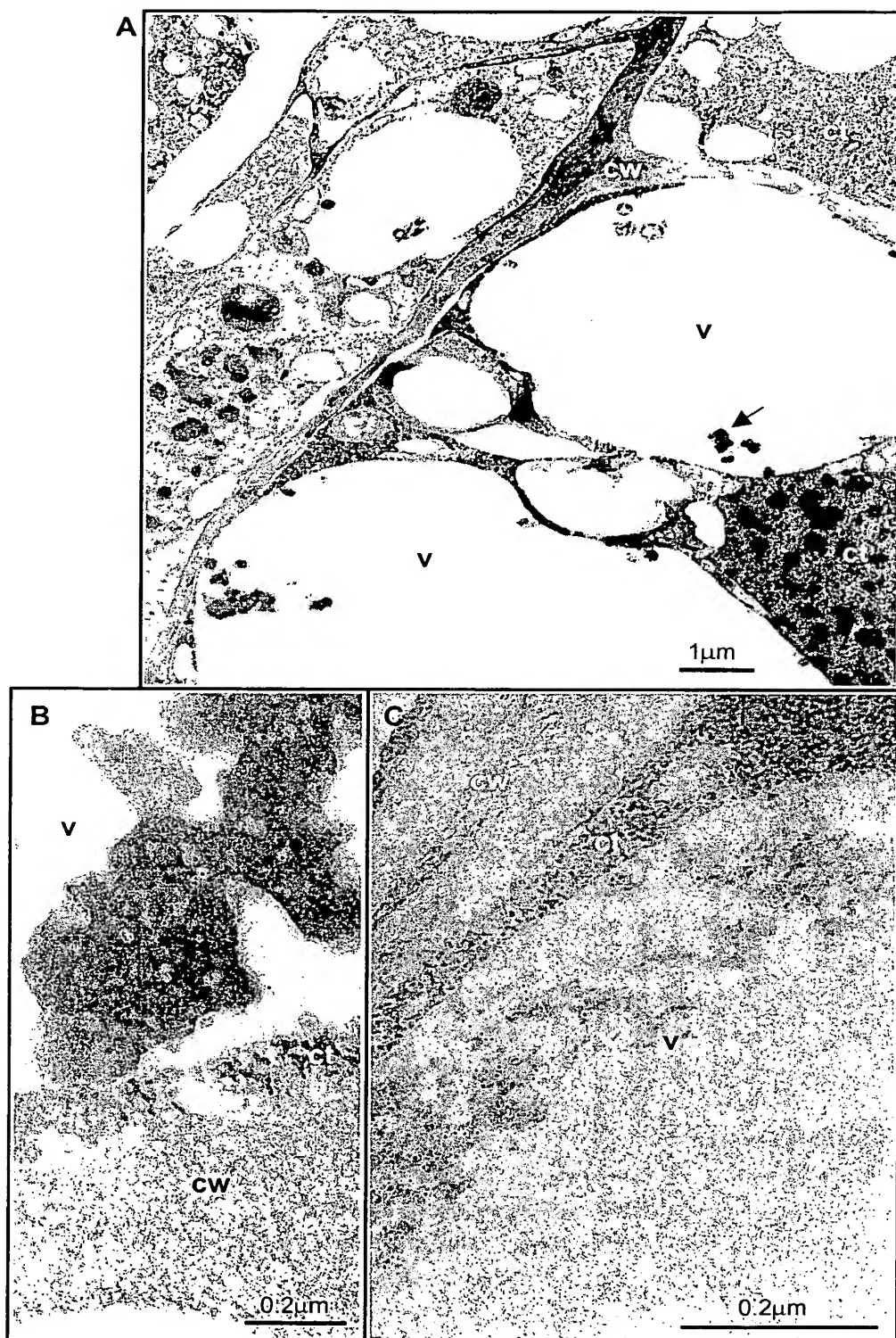


Figure 7

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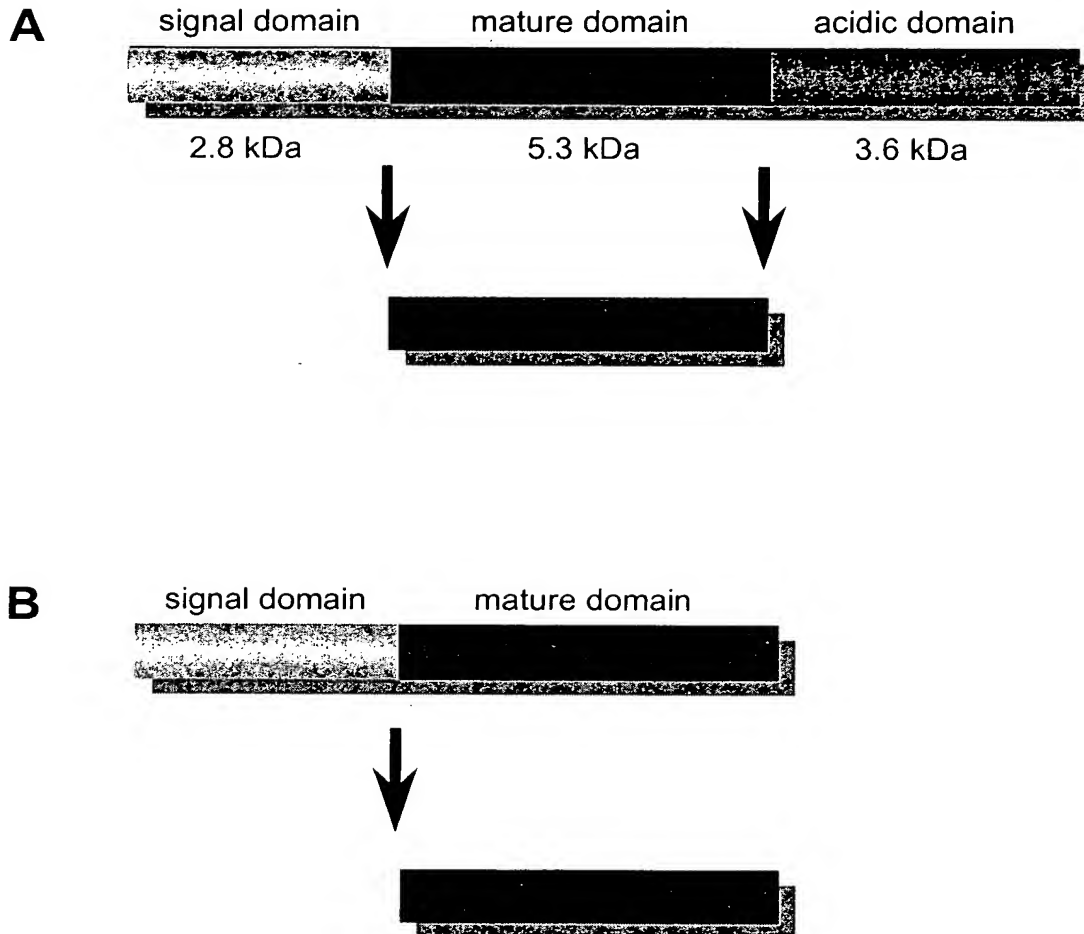


Figure 8

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NaPdf1	(<400>18)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
FST	(<400>20)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
TTP3	(<400>21)	MARSIFFMAFLVLAMMLFVTYEV-----EAQQICKAPSQTFPGLCFMDSS
NTS13	(<400>22)	MANSMRFFATVLLIALLVTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN
PPT	(<400>23)	MGRSIRLFATFFLIAMFLSTEMGPMTSAEA-RTCESQSHRFHGTVCVRESN
ATPIIIa	(<400>24)	MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTVCVSASN

NaPdf1	CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAEILAEAAKTLAAALLEEEIMDN
FST	CRKACISEKFTDGHCSKLLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN
TTP3	CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME
NTS13	CATVCLTEGFSGGRCPWIPPRCFCTSPC-----
PPT	CASVCQTEGFIGGNCRAFRRRCFCTRNC-----
ATPIIIa	CANVCHNEGFGVGGNCRGFRRRCFCTRHC-----

Figure 9

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Nicotiana alata	Napdf1	-REC-KTESNTFP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC-	(<400>8)
Nicotiana tabacum	FST	-REC-KTESNTFP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC-	(<400>25)
Lycopersicon esculentum	TPP3	-QIC-KAPSQTFF-GLCFMDSSCRKYCIK-EKFTDGH-CSK--LQKCLCTKPC-	(<400>26)
Solanum tuberosum	P322	-RHC-ESLSHRFK-GPCTRDSNCASVCET-ERFSGN-CHG-F-RRRCFCCTKPC-	(<400>27)
Petunia inflata	PPT	-RTC-ESQSHRFH-GTCVRESNCASVCQT-EGFIGN-CRA-F-RRRCFCCTRNC-	(<400>28)
Glycine max	SE60	-RVC-ESQSHGFH-GLCNRDHNCAVCRNE-G-FSGGRCKG-F-RRRCFCCTRIC-	(<400>29)
Hordeum vulgare	γ1-H	-RIC-RRRSAGFK-GPCVSNKNCAQVCMQE-G-WGGNCDG--PLRRCKCMRRRC-	(<400>30)
Sinapis alba	M2A	pQKLC-QRPSGTWS-GVCGNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>31)
Solanum tuberosum	PTH-St1	-RNC-ESLSHRFK-GPCTRDSNC-----	(<400>32)
Raphanus sativus	Rs-AFP1	pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>33)
Raphanus sativus	Rs-AFP2	pQKLC-QRPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>34)
Sinapis alba	M1	pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>35)
Sinapis alba	M2B	pQKLC-ARPSGTWSSGNCNRNNACRNFCIKLEKSRHGS-CNIPFPSNKCICYFPC-	(<400>36)
Triticum turgidum	γ1-P	-KIC-RRRSAGFK-GPCMSNKNCAQVCQOE-G-WGGNCDG--PFRRCCKIRQC-	(<400>37)
Triticum turgidum	γ2-P	-KVC-RQRSAGFK-GPCVSDKNCAQVCLQE-G-WGGNCDG--PFRRCCKIRQC-	(<400>38)
Vigna unguiculata	10kDa	-KTC-ENLVDTYR-GPCFTTGSCDDHCKNKEHLLSGR-CR--DDVRCWCTRNC-	(<400>39)
Sorghum bicolor	Sia2	-RVC-MGKSAGFK-GLCMRDQNAQVCLQE-G-WGGNCDG--VMRQCKCIRQCW	(<400>40)
Sorghum bicolor	Sia3	-RVC-RRRSAGFK-GLCMSDHNCAQVCLQE-G-WGGNCDG--VIRQCKCIRQCW	(<400>41)
Dalia merckii	Dm-AMP2	-EVC-EKASKTWS-GNCGNTGHC-----	(<400>42)
Sorghum bicolor	Sia1	-RVC-MKGSQHHS-FPCISDRLCSNECVKEEGWTAGYCH-----LRYCRCQKAC-	(<400>43)
Pisum sativum	P1230	-NTC-ENLAGSYK-GVCF--GGCDRHCRTOEGATISGR-CR--DDFRCWCTKNC-	(<400>44)
Aesculus hippocastanum	Ah-AMP1	--LCNERPSQTWS-GNCGNTAHCDKQCDWEKASHGA-CHKRENHWKCFCYFNC-	(<400>45)
Heuchera sanguinea	Hs-AFP1	-KLC-DVPSGTWS-GHCGSSSKCSQQCKDREHFAYGGACHYQFPSVKCFCKRQC-	(<400>46)
Dalia merckii	Dm-AMP1	-ELC-EKASKTWS-GNCGNTGHCDNQCKSWEAAHGA-CHVRNGKHMCFCYFNC-	(<400>47)
Pisum sativum	P139	-NTC-EHLADTYR-GVCFNTASCDHCKNKAHLISGT-CH----DWKCFCTQNC-	(<400>48)
Clitoria ternatea	Ct-AMP1	-NLC-ERASLTWT-GNCGNTGHCDTQCRNWESAKHGA-CHKRGN-WKCFCYFNC-	(<400>49)

Figure 10

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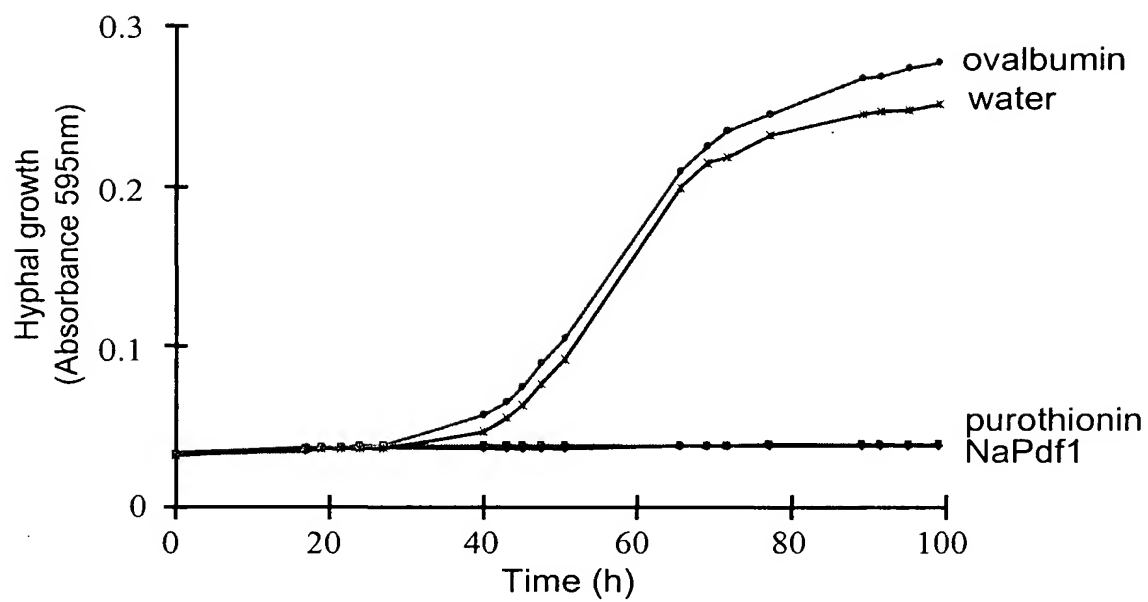


Figure 11

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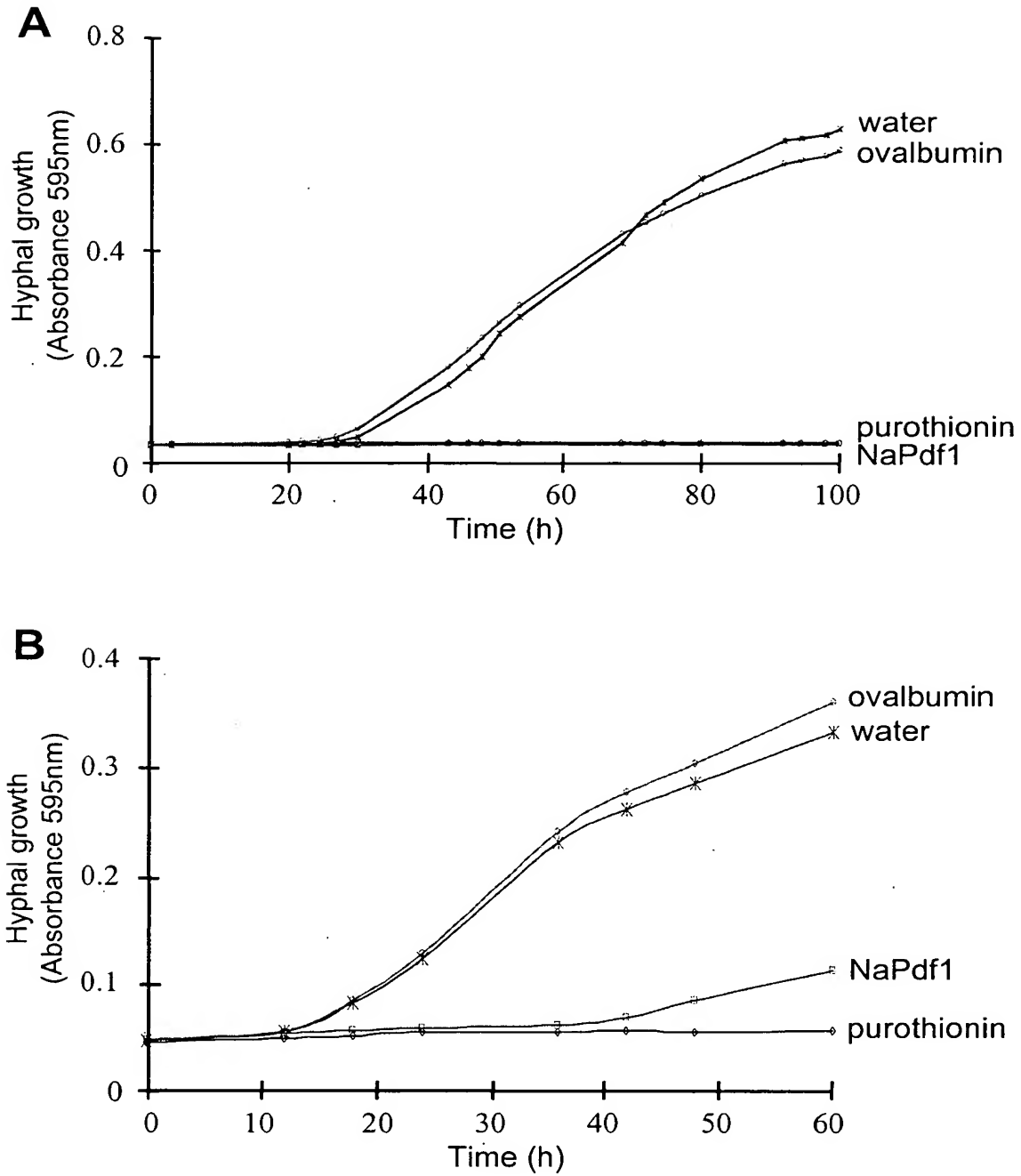


Figure 12

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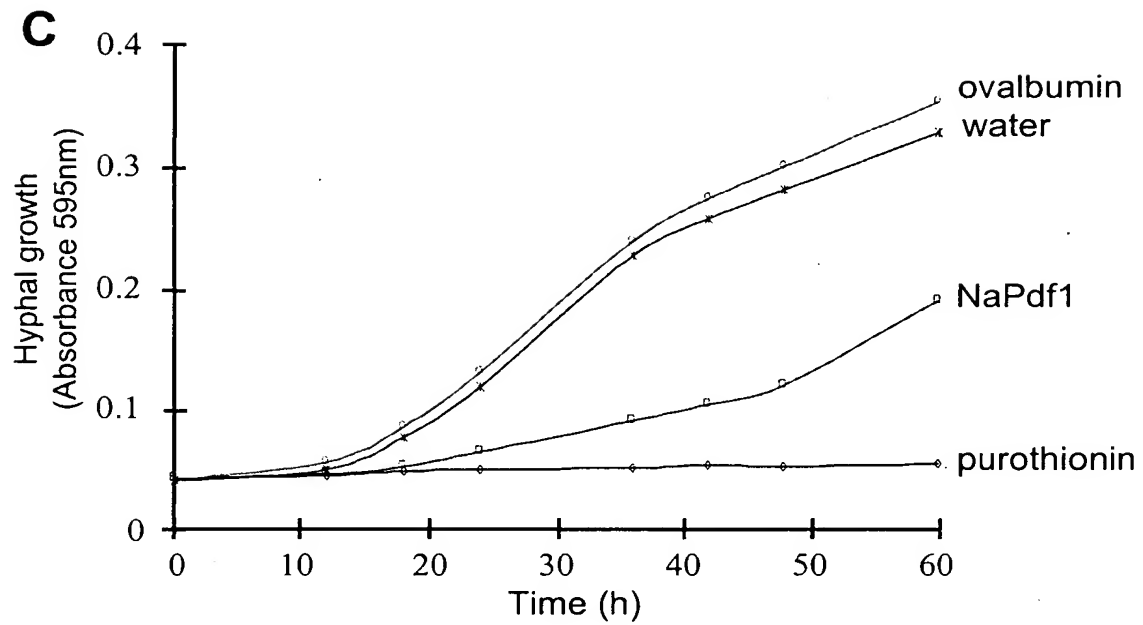


Figure 12 continued

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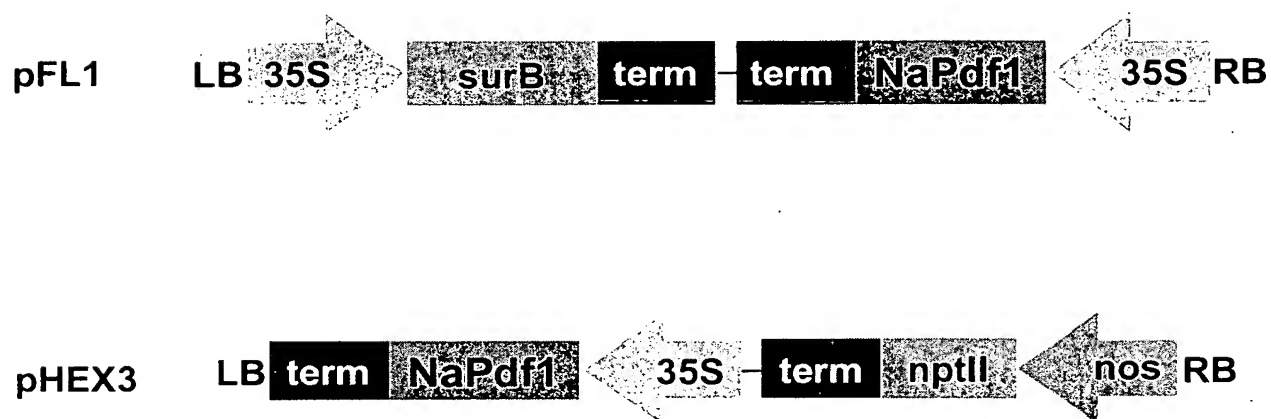


Figure 13

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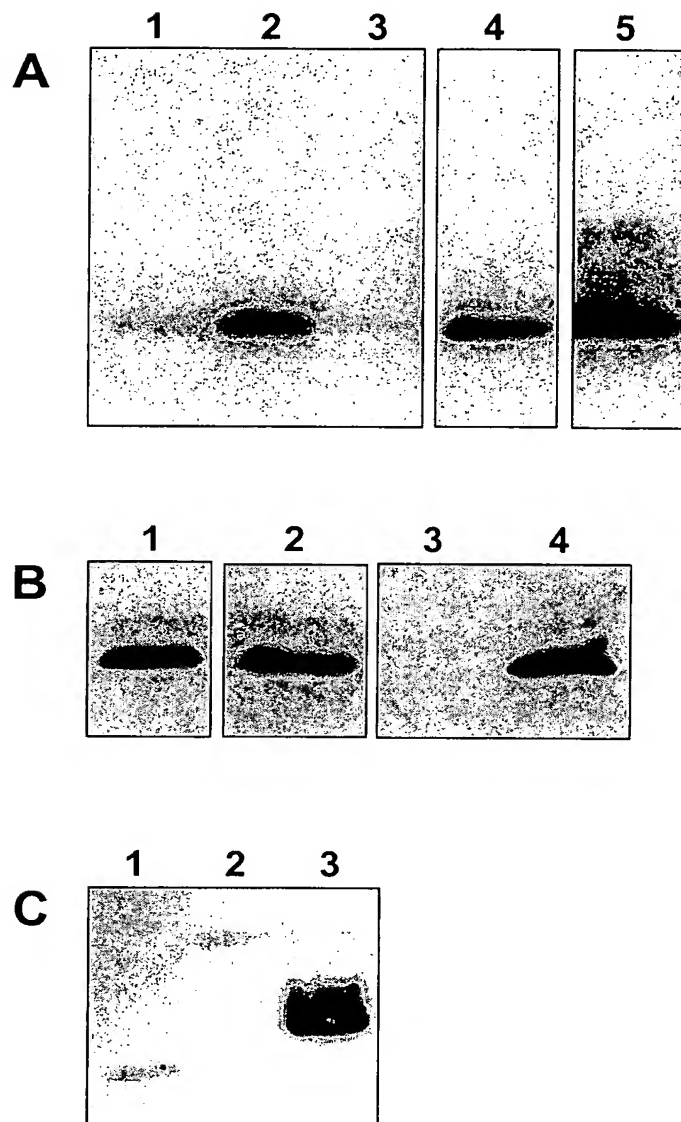


Figure 14

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H. punctigera bioassay with transgenic tobacco

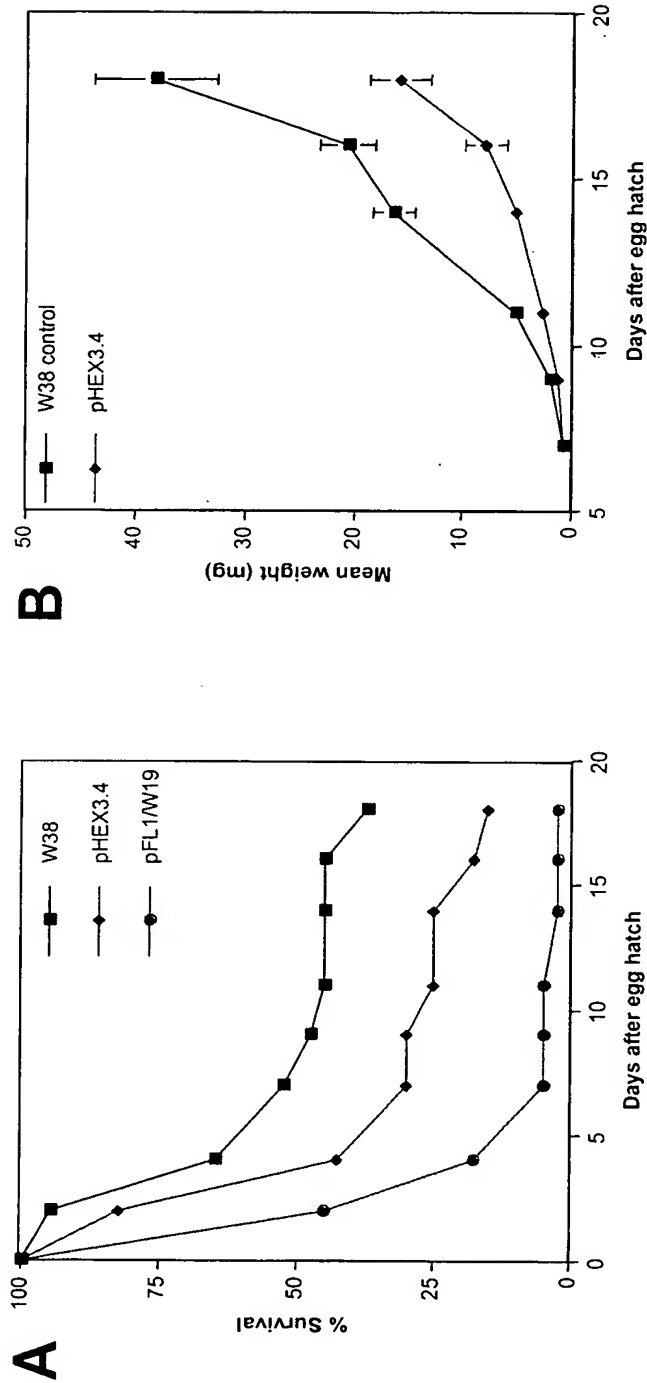


Figure 15

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H. armigera bioassay with transgenic tobacco

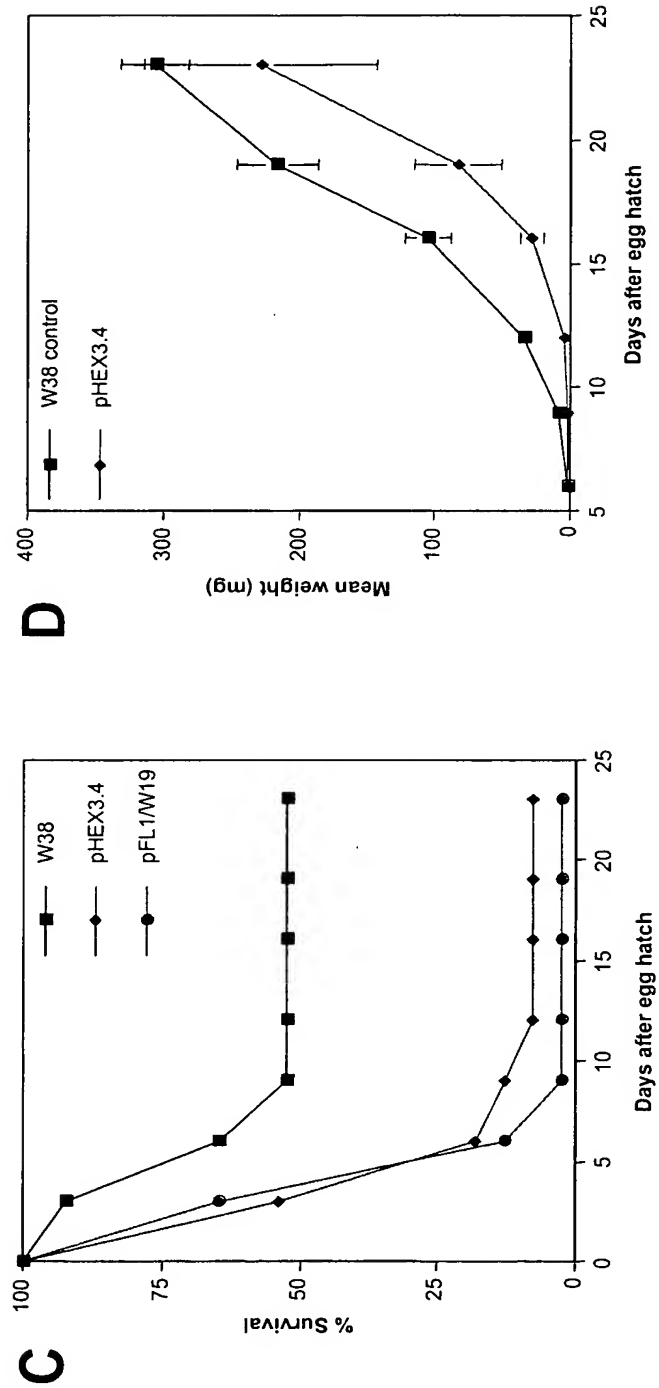


Figure 15 continued

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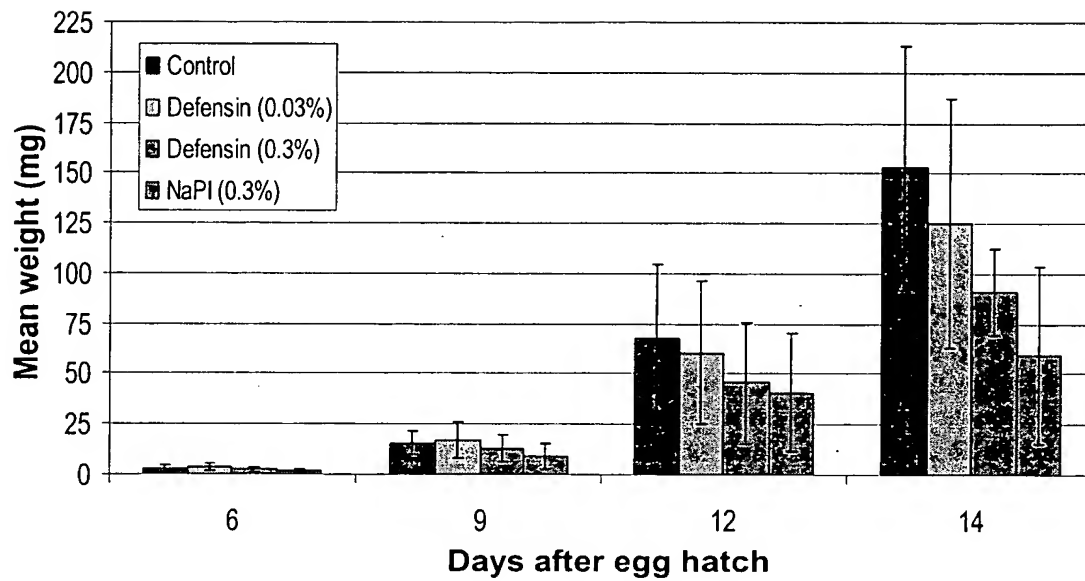


Figure 16

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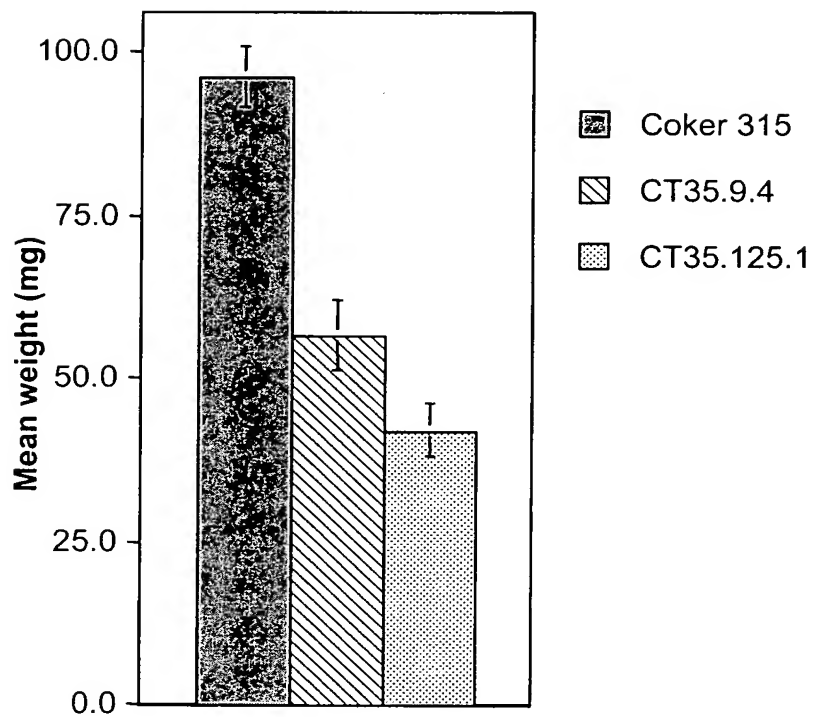


Figure 17